

DATA PACKAGE

GC SEMI-VOLATILES

PROJECT NAME : RFP 911

WESTON SOLUTIONS, INC.

1090 King Georges Post Road

Suite 201

Edison, NJ - 08837-3703

Phone No: 732-585-4410

ORDER ID : Q1884

ATTENTION : Smita Sumbaly



Laboratory Certification ID # 20012



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Order ID : Q1884

Project ID : RFP 911

Client : Weston Solutions, Inc.

Lab Sample Number

Q1884-01
Q1884-02

Client Sample Number

P001-SS037-01
P001-SS038-01

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

APPROVED

Signature : _____ *By Nimisha Pandya, QA/QC Supervisor at 11:19 am, May 02, 2025*

Date: 5/2/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Weston Solutions, Inc.

Project Name: RFP 911

Project # N/A

Chemtech Project # Q1884

Test Name: PCB

A. Number of Samples and Date of Receipt:

2 Solid samples were received on 04/25/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: PCB. This data package contains results for PCB.

C. Analytical Techniques:

The analyses were performed on instrument GCECD_P. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11. The analyses were performed on instrument GCECD_O. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11. The analysis of PCBs was based on method 8082A and extraction was done based on method 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for P001-SS037-01 [Decachlorobiphenyl(1) - 327%, Decachlorobiphenyl(2) - 380%], P001-SS037-01DL [Decachlorobiphenyl(1) - 368%, Decachlorobiphenyl(2) - 467%, Tetrachloro-m-xylene(2) - 167%], P001-SS038-01 [Decachlorobiphenyl(1) - 205%, Decachlorobiphenyl(2) - 234%], P001-SS038-01DL [Decachlorobiphenyl(1) - 200% and Decachlorobiphenyl(2) - 284%], but this sample was required further dilution as well due to high concentration, therefore original and Dilution analysis were reported and no further corrective action taken.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds .

The MSD recoveries met the acceptable requirements .

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .
Samples P001-SS037-01, P001-SS038-01 were diluted due to high concentrations.

E. Additional Comments:

The soil samples results are based on a dry weight basis.

F. Calculation for Concentration in Soil samples:

$$\text{Concentration ug/Kg (Dry weight basis)} = \frac{(A_x) (V_t) (DF) (GPC)}{(CF) (V_i) (W_s) (D)}$$

Where,

A_x = Response (peak area or height) of the compound to be measured.

CF = Mean Calibration Factor from the initial calibration (area/ng).

V_t = Volume of the concentrated extract in uL

V_i = Volume of extract injected (uL). (If a single injection is made onto two columns, use ½ the volume in the syringe as the volume injected onto each column).

W_s = Weight of sample extracted (g).

D = $\frac{\% \text{ dry weight}}{100}$ or 100 - %Moisture

$$GPC = \frac{V_{in}}{V_{out}} = \text{GPC factor (If no GPC is performed, GPC=1)}$$

V_{in} = Volume of extract loaded onto GPC column.

V_{out} = Volume of extract collected after GPC cleanup.

DF = Dilution Factor

G. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature _____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 11:19 am, May 02, 2025

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1884

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 05/02/2025

Hit Summary Sheet SW-846

SDG No.: Q1884

Order ID: Q1884

Client: Weston Solutions, Inc.

Project ID: RFP 911

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : P001-SS037-01								
Q1884-01	P001-SS037-01	SOIL	Aroclor-1248	2200	E	6.30	18.0	ug/kg
Q1884-01	P001-SS037-01	SOIL	Aroclor-1254	3300	E	3.40	18.0	ug/kg
Q1884-01	P001-SS037-01	SOIL	Aroclor-1260	2300	E	3.40	18.0	ug/kg
Total Concentration:				7,800.000				
Client ID : P001-SS037-01DL								
Q1884-01DL	P001-SS037-01DL	SOIL	Aroclor-1248	3000	D	125	360	ug/kg
Q1884-01DL	P001-SS037-01DL	SOIL	Aroclor-1254	3400	D	68.0	360	ug/kg
Q1884-01DL	P001-SS037-01DL	SOIL	Aroclor-1260	2900	D	68.4	360	ug/kg
Total Concentration:				9,300.000				
Client ID : P001-SS038-01								
Q1884-02	P001-SS038-01	SOIL	Aroclor-1254	3400	E	3.30	17.4	ug/kg
Q1884-02	P001-SS038-01	SOIL	Aroclor-1260	2400	E	3.30	17.4	ug/kg
Total Concentration:				5,800.000				
Client ID : P001-SS038-01DL								
Q1884-02DL	P001-SS038-01DL	SOIL	Aroclor-1254	3700	D	65.8	348	ug/kg
Q1884-02DL	P001-SS038-01DL	SOIL	Aroclor-1260	2900	D	66.2	348	ug/kg
Total Concentration:				6,600.000				



SAMPLE DATA

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	04/24/25	
Project:	RFP 911		Date Received:	04/25/25	
Client Sample ID:	P001-SS037-01		SDG No.:	Q1884	
Lab Sample ID:	Q1884-01		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	94.2	Decanted:
Sample Wt/Vol:	30.07	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071566.D	1	04/28/25 09:05	04/28/25 20:47	PB167765

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.20	U	4.20	18.0	ug/kg
11104-28-2	Aroclor-1221	4.30	U	4.30	18.0	ug/kg
11141-16-5	Aroclor-1232	3.90	U	3.90	18.0	ug/kg
53469-21-9	Aroclor-1242	4.20	U	4.20	18.0	ug/kg
12672-29-6	Aroclor-1248	2200	E	6.30	18.0	ug/kg
11097-69-1	Aroclor-1254	3300	E	3.40	18.0	ug/kg
37324-23-5	Aroclor-1262	5.30	U	5.30	18.0	ug/kg
11100-14-4	Aroclor-1268	3.80	U	3.80	18.0	ug/kg
11096-82-5	Aroclor-1260	2300	E	3.40	18.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	27.5		32 - 144	138%	SPK: 20
2051-24-3	Decachlorobiphenyl	76.0	*	32 - 175	380%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	04/24/25	
Project:	RFP 911		Date Received:	04/25/25	
Client Sample ID:	P001-SS037-01DL		SDG No.:	Q1884	
Lab Sample ID:	Q1884-01DL		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	94.2	Decanted:
Sample Wt/Vol:	30.07	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071605.D	20	04/28/25 09:05	04/29/25 12:12	PB167765

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	83.7	UD	83.7	360	ug/kg
11104-28-2	Aroclor-1221	85.4	UD	85.4	360	ug/kg
11141-16-5	Aroclor-1232	78.8	UD	78.8	360	ug/kg
53469-21-9	Aroclor-1242	84.9	UD	84.9	360	ug/kg
12672-29-6	Aroclor-1248	3000	D	125	360	ug/kg
11097-69-1	Aroclor-1254	3400	D	68.0	360	ug/kg
37324-23-5	Aroclor-1262	106	UD	106	360	ug/kg
11100-14-4	Aroclor-1268	76.3	UD	76.3	360	ug/kg
11096-82-5	Aroclor-1260	2900	D	68.4	360	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	33.4	*	32 - 144	167%	SPK: 20
2051-24-3	Decachlorobiphenyl	93.4	*	32 - 175	467%	SPK: 20

Comments:

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Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	04/24/25	
Project:	RFP 911		Date Received:	04/25/25	
Client Sample ID:	P001-SS038-01		SDG No.:	Q1884	
Lab Sample ID:	Q1884-02		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	97.4	Decanted:
Sample Wt/Vol:	30.06	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071567.D	1	04/28/25 09:05	04/28/25 21:04	PB167765

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.00	U	4.00	17.4	ug/kg
11104-28-2	Aroclor-1221	4.10	U	4.10	17.4	ug/kg
11141-16-5	Aroclor-1232	3.80	U	3.80	17.4	ug/kg
53469-21-9	Aroclor-1242	4.10	U	4.10	17.4	ug/kg
12672-29-6	Aroclor-1248	6.10	U	6.10	17.4	ug/kg
11097-69-1	Aroclor-1254	3400	E	3.30	17.4	ug/kg
37324-23-5	Aroclor-1262	5.10	U	5.10	17.4	ug/kg
11100-14-4	Aroclor-1268	3.70	U	3.70	17.4	ug/kg
11096-82-5	Aroclor-1260	2400	E	3.30	17.4	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.1		32 - 144	110%	SPK: 20
2051-24-3	Decachlorobiphenyl	46.9	*	32 - 175	234%	SPK: 20

Comments:

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Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	04/24/25	
Project:	RFP 911		Date Received:	04/25/25	
Client Sample ID:	P001-SS038-01DL		SDG No.:	Q1884	
Lab Sample ID:	Q1884-02DL		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	97.4	Decanted:
Sample Wt/Vol:	30.06	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071606.D	20	04/28/25 09:05	04/29/25 12:29	PB167765

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	80.9	UD	80.9	348	ug/kg
11104-28-2	Aroclor-1221	82.6	UD	82.6	348	ug/kg
11141-16-5	Aroclor-1232	76.2	UD	76.2	348	ug/kg
53469-21-9	Aroclor-1242	82.2	UD	82.2	348	ug/kg
12672-29-6	Aroclor-1248	121	UD	121	348	ug/kg
11097-69-1	Aroclor-1254	3700	D	65.8	348	ug/kg
37324-23-5	Aroclor-1262	103	UD	103	348	ug/kg
11100-14-4	Aroclor-1268	73.8	UD	73.8	348	ug/kg
11096-82-5	Aroclor-1260	2900	D	66.2	348	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	24.0		32 - 144	120%	SPK: 20
2051-24-3	Decachlorobiphenyl	56.8	*	32 - 175	284%	SPK: 20

Comments:

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() = Laboratory InHouse Limit

LAB CHRONICLE

OrderID:	Q1884	OrderDate:	4/25/2025 10:14:00 AM
Client:	Weston Solutions, Inc.	Project:	RFP 911
Contact:	Smita Sumbaly	Location:	L51

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1884-01	P001-SS037-01	SOIL			04/24/25			04/25/25
			PCB	8082A		04/28/25	04/28/25	
Q1884-01DL	P001-SS037-01DL	SOIL			04/24/25			04/25/25
			PCB	8082A		04/28/25	04/29/25	
Q1884-02	P001-SS038-01	SOIL			04/24/25			04/25/25
			PCB	8082A		04/28/25	04/28/25	
Q1884-02DL	P001-SS038-01DL	SOIL			04/24/25			04/25/25
			PCB	8082A		04/28/25	04/29/25	



SHIPPING DOCUMENTS

No: 2-042425-0040-0037-01



RFP #911

Lab: Alliance Technical Group, LLC - Non
CLP

Lab Phone: 908-728-3144

424-2025

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples All Analyses	 Weston	4-24-2025 1350		4-25-25 0930	4.1°C In GUN #1
					Adjust Factor +1

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488